

12. Install the front fender.

13. After a few hours of riding, the bearings have had a chance to seat; readjust the free play in the steering stem with the steering stem adjusting nut. Refer to Step 6.

Steering Stem Adjustment

If play develops in the steering system, it may only require adjustment. However, don't take a chance on it. Disassemble the stem and look for possible damage. Then reassemble and adjust as described in Step 6 of the installation procedure.

REAR WHEEL

Removal/Installation

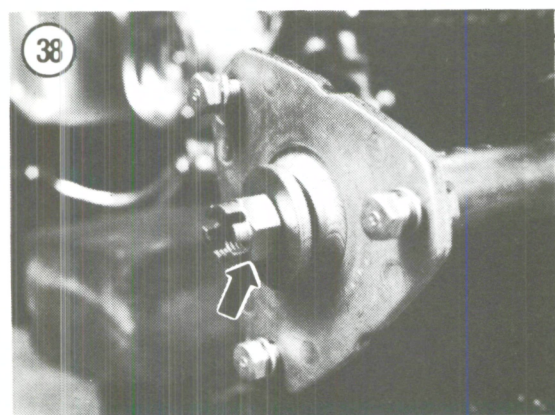
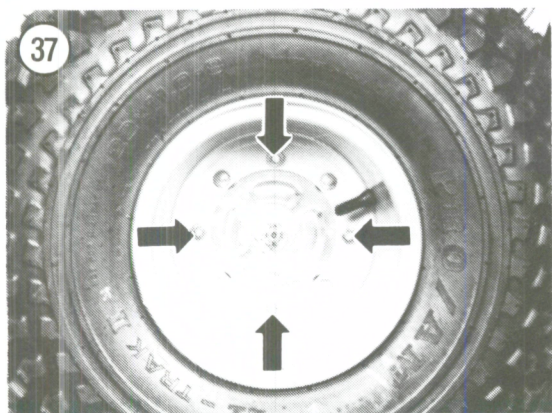
1. Set the ATC on level ground and set the parking brake. Also block the front wheel so the vehicle will not roll in either direction.

2. Jack up the rear of the vehicle with a small hydraulic jack. Place wood blocks under the engine; release jack pressure and securely support the vehicle on the wood blocks.

3A. On 1970-1974 ATC90 models, perform the following:

- a. Remove the axle cap.
- b. Remove the cotter pin and discard it.
- c. Remove the axle nut and washer.

3B. On all other models, remove the wheel nuts (Figure 37) securing the wheel to the hub and remove the wheel.



9. Attach the electrical wires to the headlight assembly or install the headlight assembly, if removed.

10. Install the handlebar assembly and install the lockwasher and nuts to the lower handlebar holder studs (Figure 28). Tighten the nuts to the torque specification listed in Table 1.

11. Install the front wheel as described in this chapter.

NOTE

The number of wheel nuts varies with the different models.

4. Install by reversing these removal steps; note the following.

5. On 1970-1974 ATC90 models, when installing the right-hand wheel, make sure the spacer collar is in place on the axle prior to installing the wheel.

6. Tighten the axle nut or wheel nuts to torque specifications listed in Table 1.

REAR AXLE AND DRIVEN SPROCKET (ATC70)

Removal/Installation (1973-1975)

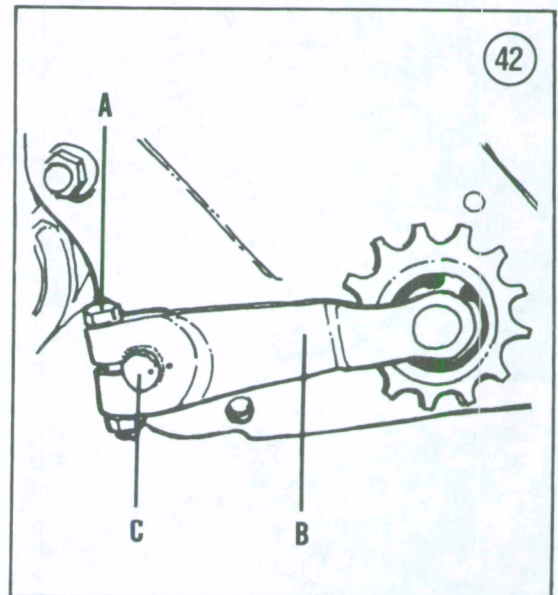
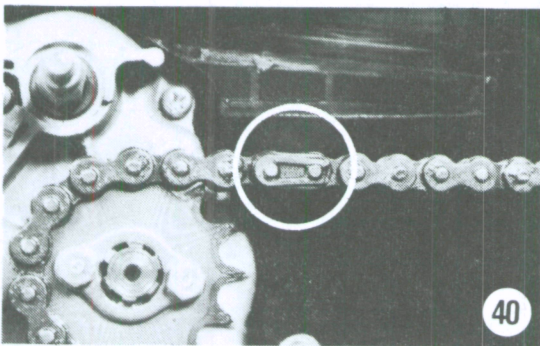
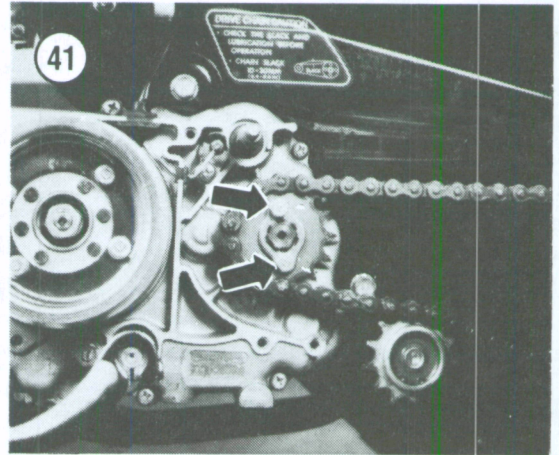
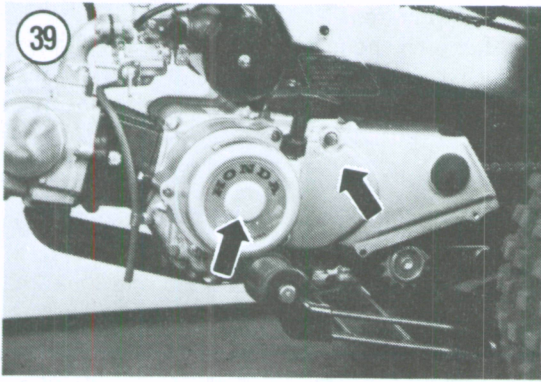
1. Remove the seat/rear fender assembly.

2. Remove the bolts securing the skid plate and remove the skid plate.

3. Remove both rear wheels as described in this chapter.

4. Remove the cotter pin, castellated nut and lockwasher securing the rear hub (Figure 38).

5. Remove both the left- and right-hand hubs and the axle spacers.



6. Remove the rear cover, step bar and the lower skid plate.

7. Remove the left-hand crankcase cover and the recoil starter as an assembly (Figure 39).

8. Loosen the drive chain tensioner lock bolt.

9. Remove the master link (Figure 40) on the drive chain.

10. Remove the bolts and washers (Figure 41) securing the drive sprocket and remove the drive sprocket and drive chain.

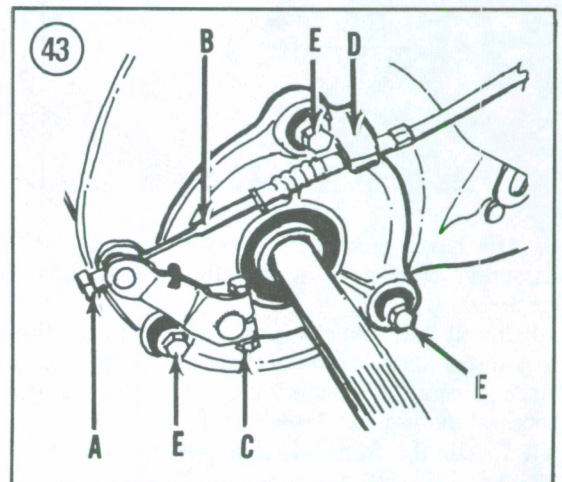
11. Remove the lockbolt (A, Figure 42) and remove the drive chain tensioner (B, Figure 42) from the shaft (C, Figure 42). Remove the shaft from the frame.

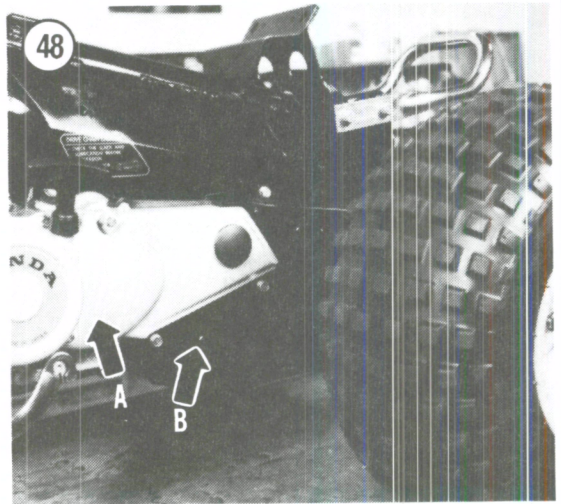
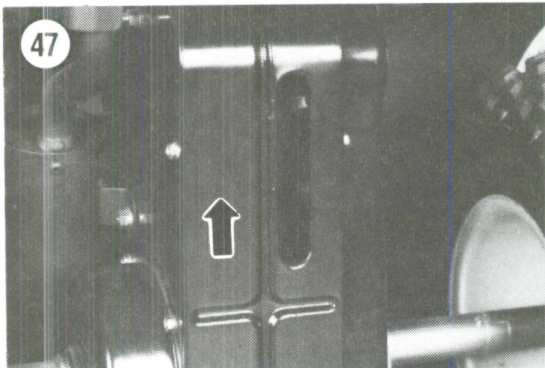
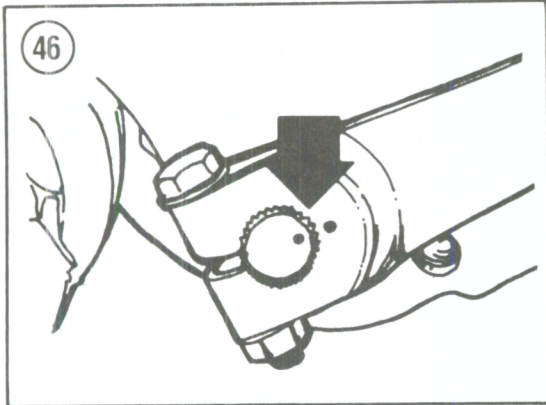
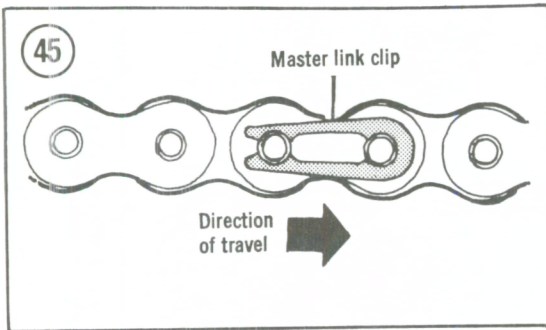
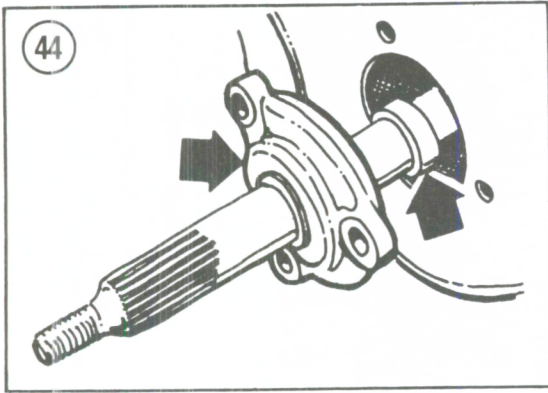
12. Loosen the brake adjust nut (A, Figure 43) and disconnect the brake cable (B, Figure 43) from the brake arm.

13. Remove the brake arm locking bolt (C, Figure 43) and remove the brake arm from the camshaft along with the return spring. Disconnect the brake cable from the right-hand panel clamp (D, Figure 43).

14. Remove the bolts (E, Figure 43) securing the right-hand panel and remove the panel and the internal collar.

15. Remove the bolts securing the left-hand panel and remove the panel and the internal collar (Figure 44).

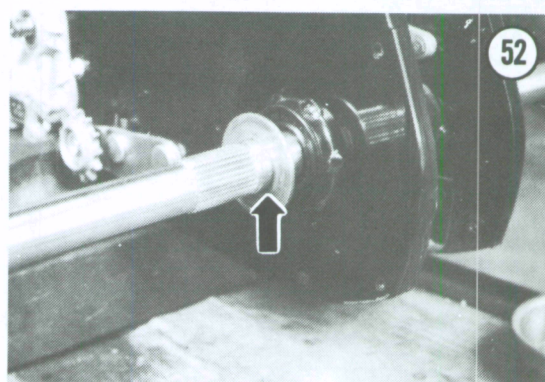
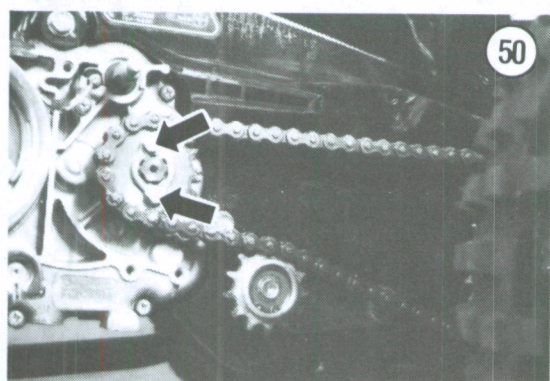
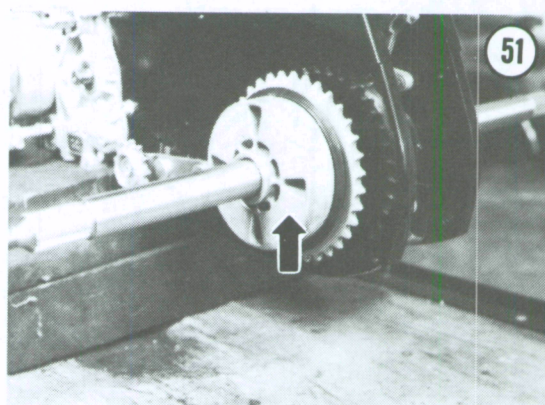
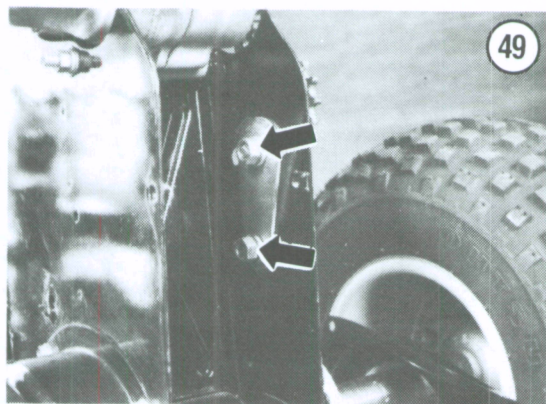




16. Have a helper securely hold the rear axle hub.
17. Place a wood block on the right-hand end of the axle and tap on it until the axle splines are free from the axle hub.
18. Remove the axle.
19. Remove the hub/driven sprocket assembly from the frame.
20. Inspect the rear axle and hubs as described in this chapter.
21. Perform *Disassembly/Inspection/Assembly* in this chapter.
22. Install by reversing these removal steps, noting the following.
23. Be sure to install the drive chain master link with the closed end facing in the direction of travel (Figure 45).
24. Align the punch marks on the drive chain tensioner arm and shaft (Figure 46) and tighten the lockbolt securely.

Removal/Installation (1978-on)

1. Remove the seat/rear fender assembly.
2. Remove the bolts securing the skid plate (Figure 47) and remove the skid plate.
3. Remove both rear wheels as described in this chapter.
4. Remove the cotter pin, castellated nut and lockwasher securing the rear hub (Figure 38).
5. Remove both the left- and right-hand hubs and the axle spacers.
6. Remove the left-hand crankcase cover and the recoil starter as an assembly (A, Figure 48).
7. Remove the bolts securing the chain cover and remove the chain cover (B, Figure 48).
8. Loosen the drive chain tensioner nuts (Figure 49).



9. Remove the master link (**Figure 40**) on the drive chain.

10. Remove the bolts and washers (**Figure 50**) securing the drive sprocket and remove the drive sprocket and drive chain.

11. Slide off the drive sprocket (**Figure 51**) and the sprocket retainer (**Figure 52**).

12. Remove the bolts and washers (**Figure 53**) securing the brake cover and remove it.

13. Slide off the brake drum (**Figure 54**).

14. Withdraw the axle from the left-hand side.

15. Inspect the rear axle and hubs as described in this chapter.

16. Perform *Disassembly/Inspection/Assembly* in this chapter.

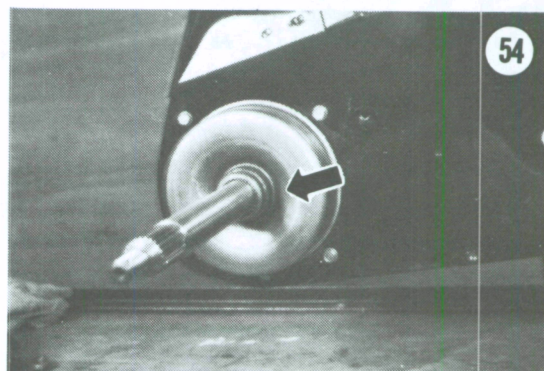
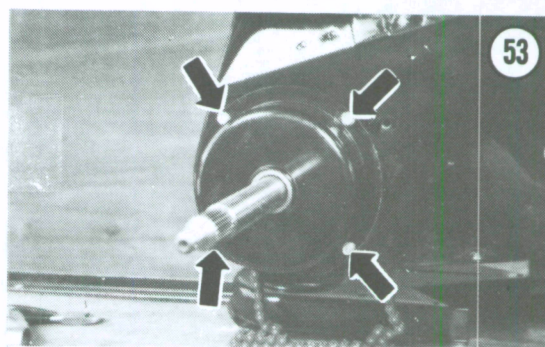
17. Install by reversing these removal steps, noting the following.

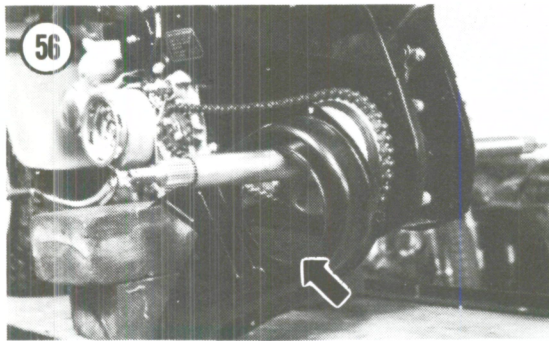
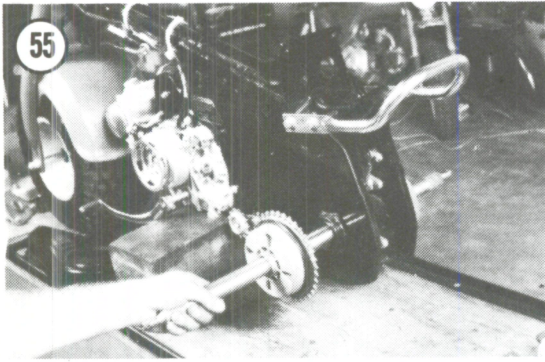
18. Be sure to install the drive chain master link with the closed end facing in the direction of travel (**Figure 45**).

19. Be sure to install the sprocket retainer (**Figure 52**).

20. Install the axle from the left-hand side (**Figure 55**).

21. Install the drive chain protector (**Figure 56**) onto the axle prior to installing the left-hand hub.



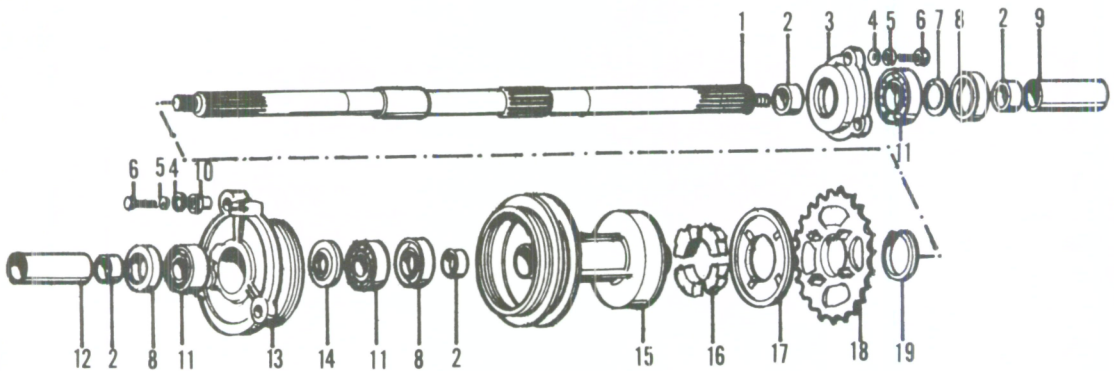


Disassembly/Inspection/Assembly

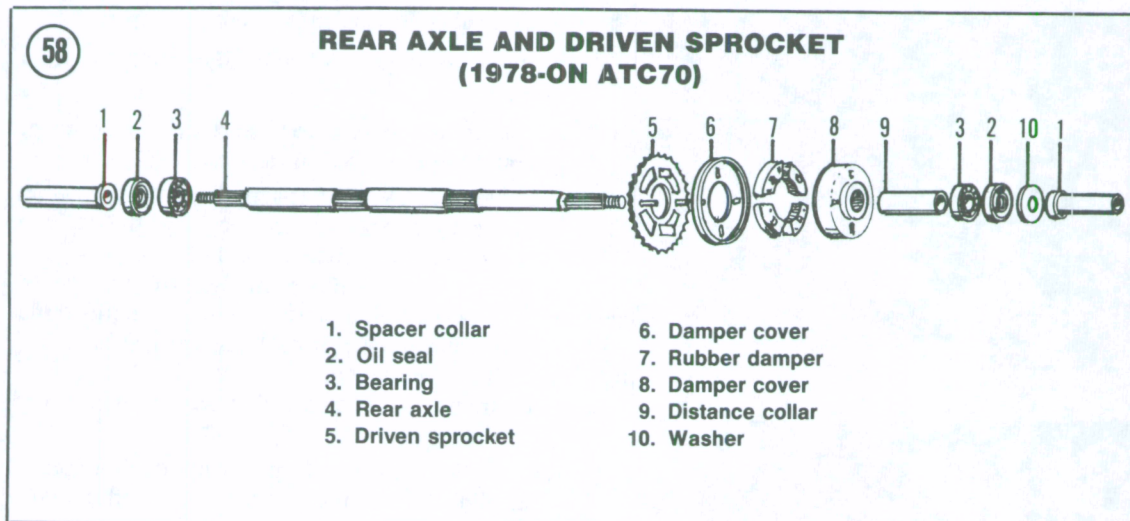
Refer to **Figure 57** and **Figure 58** for this procedure.

1. Remove the rear axle and driven sprocket assembly as described in this chapter.
- 2A. On 1973-1974 models, perform the following:
 - a. Remove the circlip securing the driven sprocket to the rear wheel hub.
 - b. Tap around the perimeter of the driven sprocket with a plastic mallet and remove the driven sprocket from the rear wheel hub.
 - c. Remove the damper cover.
 - d. Remove the rubber dampers from the rear wheel hub.
- 2B. On 1978-on models, perform the following:
 - a. Slide the driven sprocket assembly off the axle.
 - b. Remove the driven sprocket, damper cover and the rubber dampers from the damper case.
3. Inspect all components (**Figure 59**) for wear or damage.
4. Replace all rubber dampers as a set even if only one shows signs of deterioration or damage.
5. Inspect the driven sprocket. Compare to **Figure 60**. If it is worn or distorted, replace the sprocket.

REAR AXLE AND DRIVEN SPROCKET (1973-1974 ATC70)

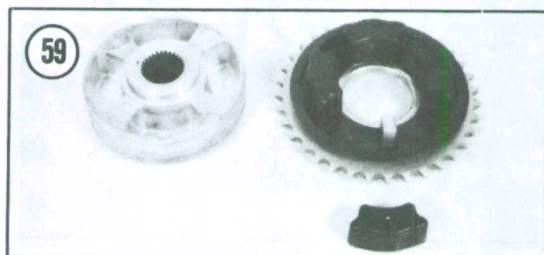


- | | |
|--------------------|----------------------|
| 1. Rear axle | 11. Bearing |
| 2. Panel collar | 12. Spacer collar |
| 3. Left-hand panel | 13. Right-hand panel |
| 4. Washer | 14. Spacer |
| 5. Lockwasher | 15. Rear hub |
| 6. Bolt | 16. Rubber damper |
| 7. Circlip | 17. Damper cover |
| 8. Oil seal | 18. Driven sprocket |
| 9. Spacer collar | 19. Circlip |
| 10. Rubber bushing | |



NOTE

If the driven sprocket is worn or damaged and must be replaced, also inspect the drive chain and drive sprocket for damage. Never replace just one of these 3 components without a thorough inspection of all the rest. If one is replaced, the other 2 should also be replaced. If not, the new component will wear out prematurely.



6. Assemble by reversing these disassembly steps.

**REAR AXLE AND DRIVEN SPROCKET
(1970-1974 ATC90)**

Removal/Installation

1. Remove the seat/rear fender assembly.
2. Remove both rear wheels as described in this chapter.
3. Remove the bolts securing the drive chain case.
4. On the left-hand side, remove the bolts securing the rear axle to the driven sprocket assembly.
5. Withdraw the rear axle from the left-hand side.
6. Inspect the rear axle as described in this chapter.
7. Install by reversing these removal steps, noting the following.
8. When installing the rear axle, carefully align the splines on the axle with the splines inside the driven sprocket assembly.
9. Tighten the bolts to the torque specification listed in Table 1.

Disassembly/Inspection/Assembly

Refer to Figure 61 for this procedure.

1. Remove the rear axle as described in this chapter.

2. On the right-hand side, remove the brake drum nut, seal washer and the brake drum.
3. Remove the driven sprocket/wheel shaft assembly from the left-hand side.
4. Remove the wheel shaft collar from the wheel shaft/sprocket assembly.
5. Remove the nuts, lockwasher and washers securing the driven sprocket to the wheel shaft.
6. Remove the driven sprocket assembly from the wheel shaft.
7. To separate the driven sprocket assembly, perform the following:
 - a. Remove the nuts, lockwashers and lockwashers holding the driven sprocket together.
 - b. Separate the damper holders from each side of the driven sprocket and remove the rubber dampers.
 - c. On 1974 models, remove the sprocket ring.
8. Inspect all components for wear or damage.
9. Replace all rubber dampers as a set even if only one shows signs of deterioration or damage.
10. Inspect the driven sprocket. Compare to Figure 60. If it is worn or distorted, replace the sprocket.

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